

WHAT IS CLAIMED IS:

1. A method of performing an abbreviated point-to-point protocol (PPP) negotiation comprising the steps of:

pre-storing a first user profile in a first database of a first peer and in a second database of a second peer, the first pre-stored user profile including at least one pre-negotiated PPP parameter;

sending an option identifying the first pre-stored user profile by the first peer to the second peer;

retrieving the first pre-stored user profile by the first peer and the second peer in response to agreement by the peers on the first pre-stored user profile; and

setting of a state machine of the first peer and a state machine of the second peer in accordance with the first pre-stored user profile.

2. The method of claim 1 wherein the step of sending the option identifying the first user profile is performed as part of a link control protocol negotiation.

3. The method of claim 1 wherein the step of sending the option identifying the second pre-stored user profile is performed as part of a link control protocol negotiation.

4. The method of claim 1 wherein the step of sending the option is performed in response to an inter-packet-data-service-node handover of one of the peers.

5. The method of claim 1 wherein the step of sending the option is performed in response to one of the peers initiating a new PPP session.

6. The method of claim 1 wherein the step of setting of the state machine of the first peer and of the state machine of the second peer in accordance with the first pre-stored user profile obviates a need for any further point-to-point protocol negotiation between the first peer and the second peer.

7. The method of claim 1 wherein the agreement by the peers on the first pre-stored user profile comprises each of the peers acknowledging that the first pre-stored user profile is acceptable.

8. The method of claim 1 further comprising the steps of:
determining whether the second peer supports the first pre-stored user profile;

determining whether each of the at least one parameter of the first pre-stored user profile is acceptable to the second peer responsive to a determination that the second peer supports the first pre-stored user profile; and

responsive to a determination that each of the at least one parameter of the first pre-stored user profile is acceptable to the second peer, the first peer and the second peer agreeing on the first pre-stored user profile.

9. The method of claim 8 further comprising the steps of :
rejecting by the second peer of the first pre-stored user profile responsive
to a determination that the second peer does not support the first pre-stored user profile;
and

5 performing a full point-to-point protocol negotiation in response to the
rejection by the second peer of the first pre-stored user profile.

10. The method of claim 8 wherein the step of setting of the state machine of the
first peer and of the state machine of the second peer in accordance with the second pre-
stored user profile obviates a need for any further point-to-point protocol negotiation
between the first peer and the second peer.

11. The method of claim 8 further comprising the steps of:
determining whether the second peer has a second pre-stored user profile
similar to the first pre-stored user profile responsive to a determination that at least one of
the at least one parameter of the first pre-stored user profile is not acceptable to the second
5 peer; and

sending an option identifying the second pre-stored user profile by the
second peer to the first peer responsive to a determination that the second peer has the
second pre-stored user profile.

12. The method of claim 11 further comprising the steps of:
- rejecting by the second peer of the second pre-stored user profile responsive to a determination that the second peer does not have a third pre-stored user profile similar to the first pre-stored user profile; and
- 5 performing a full point-to-point protocol negotiation in response to the rejection by the second peer of the second pre-stored user profile.

13. The method of claim 11 wherein the step of sending the option identifying the second pre-stored user profile is performed as part of a link control protocol negotiation.

14. The method of claim 11 wherein the step of setting of the state machine of the first peer and of the state machine of the second peer in accordance with the second pre-stored user profile obviates a need for any further point-to-point protocol negotiation between the first peer and the second peer.

15. The method of claim 11 further comprising the steps of:
- determining whether the second pre-stored user profile is acceptable to the first peer;
- retrieving the second pre-stored user profile by the first peer and the second
- 5 peer in response to agreement by the peers on the second pre-stored user profile; and
- setting of the state machine of the first peer and the state machine of the second peer in accordance with the second pre-stored user profile.

16. The method of claim 15 wherein the agreement by the peers on the second pre-stored user profile comprises each of the peers acknowledging that the second pre-stored user profile is acceptable.

17. The method of claim 15 further comprising the steps of:

determining whether the second peer has a third profile similar to the first pre-stored user profile responsive to a determination that the second pre-stored user profile is not acceptable to the first peer;

5 sending an option identifying the third pre-stored user profile by the second peer to the first peer responsive to a determination that the second peer has the third pre-stored user profile;

determining whether the third pre-stored user profile is acceptable to the first peer;

10 retrieving the third pre-stored user profile by the first peer and the second peer in response to agreement by the peers on the third pre-stored user profile; and

setting of a state machine of the first peer and a state machine of the second peer in accordance with the third pre-stored user profile.

18. The method of claim 17 wherein the agreement by the peers on the third pre-stored user profile comprises each of the peers acknowledging that the third pre-stored user profile is acceptable.

19. A wireless communication system for providing packet data services between a first peer and a second peer, the system comprising:

a first peer engaging in negotiation of a point-to-point protocol (PPP) session and having a first database storing a first user profile that includes at least one pre-negotiated PPP parameter, the first user profile stored in the first database being linked to
5 an option; and

a second peer engaging in the negotiation with the first peer and having a second database storing the first user profile, the first user profile stored in the second database being linked to the option, wherein the first peer sends the option to the second
10 peer and, if the peers agree on the first user profile, the first user profile is retrieved from the first database and the second database and a state machine of the first peer and a state machine of the second peer are set in accordance with the first user profile.

20. The system of claim 19 wherein the first peer sends the option as part of a link control protocol negotiation.

21. The system of claim 19 wherein the state machine of the first peer and the state machine of the second peer being set in accordance with the first user profile obviates a need for any further point-to-point protocol negotiation between the first peer and the second peer.

22. The system of claim 19 wherein the negotiation of the PPP session is performed in response to an inter-packet-data-service-node handover of one of the peers.

23. The system of claim 19 wherein the negotiation of the PPP session is performed in response to one of the peers initiating a new PPP session.

24. The system of claim 19 wherein the peers agreement on the first user profile comprises each of the peers acknowledging that the first user profile is acceptable.

25. The system of claim 19 wherein, if the first user profile is not acceptable to the second peer, the second peer sends a second option identifying a second user profile to the first peer.

26. The system of claim 25 wherein the second peer sends the second user profile in accordance with a link control protocol negotiation.

27. The system of claim 25 wherein, if the peers agree on the second user profile, each of the peers retrieves the second user profile and the state machine of the first peer and the state machine of the second peer are set in accordance with the second user profile.

28. The system of claim 27 wherein the peers agreement on the second user profile comprises each of the peers acknowledging that the second user profile is acceptable.